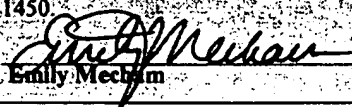


IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

ART UNIT: 2814	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.97 DATE OF DEPOSIT: <u>1/9/04</u> I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  Emily Mechem
APPLICANT: Chien-Min Sung	
SERIAL NO.: 10/453,469	
FILED: 6/2/03	
CONFRM. NO.: 2979	
FOR: CARBONACEOUS COMPOSITE HEAT SPREADER AND ASSOCIATED METHODS	
ATTORNEY DOCKET NO. 21154.CIP	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

☒ 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

☐ 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or

☐ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

Dated this 9th day of January, 2004.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone: (801) 566-6633


MWW/JRJ/ESE/em

PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21154.CIP	SERIAL NO. 10/453,469
		APPLICANT Chien-Min Sung	
		FILING DATE 6/2/03	GROUP 2814

LIST OF PRIOR ART CITED BY APPLICANT

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1						
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						
	A11						
	A12						

FOREIGN PATENT DOCUMENTS

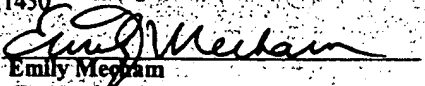
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A13						
	A14						
	A15						
	A16						
	A17						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	A18	Horton, M. D., B. J. Pope and H. T. Hall, "Sintered Diamond," INTERNATIONAL INDUSTRIAL DIAMOND ASSOCIATION SYMPOSIUM, WASHINGTON, D. C. (1974).
	A19	Pope, B. J., M. D. Horton, H. T. Hall, L. S. Bowman and H. Adaniya, "Sintered Diamond: Its Possible Use as a High Thermal Conductivity Semiconduction Device Substrate," PROC. 4TH INTERNATIONAL CONFERENCE ON HIGH PRESSURE (AIRAPT), Kyoto, Japan (1974).
	A20	Hall, H. Tracy, "Sintered Diamonds," SCIENCE, Vol 169, August 28, 1970.
EXAMINER		DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

ART UNIT: 2811	INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 DATE OF DEPOSIT: <u>4/4/04</u> I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  Emily Megram
APPLICANT: Chien-Min Sung	
SERIAL NO.: 10/270,018	
FILED: 10/11/02	
FOR: DIAMOND COMPOSITE HEAT SPREADER AND ASSOCIATED METHODS	
ATTORNEY DOCKET NO. 21154	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

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Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

Dated this 9th day of January, 2004.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, LLP
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MWW/ESE/em

PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21154	SERIAL NO. 10/270,018
		APPLICANT Chien-Min Sung	
		FILING DATE 10/11/02	GROUP 2811

LIST OF PRIOR ART CITED BY APPLICANT

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1						
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						
	A9						
	A10						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A11						
	A12						
	A13						
	A14						
	A15						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	A16	Horton, M. D., B. J. Pope and H. T. Hall, "Sintered Diamond," INTERNATIONAL INDUSTRIAL DIAMOND ASSOCIATION SYMPOSIUM, WASHINGTON, D. C. (1974).
	A17	Pope, B. J., M. D. Horton, H. T. Hall, L. S. Bowman and H. Adaniya, "Sintered Diamond: Its Possible Use as a High Thermal Conductivity Semiconduction Device Substrate," PROC. 4TH INTERNATIONAL CONFERENCE ON HIGH PRESSURE (AIRAPT), Kyoto, Japan (1974).
	A18	Hall, H. Tracy, "Sintered Diamonds," SCIENCE, Vol 169, August 28, 1970.

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

ART UNIT: 2814
EXAMINER:
APPLICANT: Chien-Min Sung, Tansui, Taiwan
SERIAL NO.: 10/453,469
FILED: 6/2/2003
CONFRM. NO.: 2979
FOR: DIAMOND COMPOSITE HEAT SPREADER
AND METHOD OF USE

**CERTIFICATE OF MAILING
UNDER 37 C.F.R. § 1.8**

DATE OF DEPOSIT: 9-8-03

I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Stana Kentz

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

☒ 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

☐ 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or

☐ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

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In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or to credit any overpayment to Deposit Account No. 20-0100.

Dated this 8th day of September, 2003.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone: (801) 566-6633

PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21154.CIP	SERIAL NO. 10/453,469
LIST OF PRIOR ART CITED BY APPLICANT		APPLICANT Chien-Min Sung, Tansui, Taiwan	
		FILING DATE 06-02-03	GROUP 2814

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2002/ 0023733 A1	02-28-02	Hall et al.			
	AB	3,574,580	04-13-71	Stromberg et al.			
	AC	3,678,995	07-25-72	Collard			
	AD	3,828,848	08-13-74	Custers et al.			
	AE	3,872,496	03-18-75	Potter			
	AF	3,912,500	10-14-75	Vereschagin et al.			
	AG	3,913,280	10-21-75	Hall			
	AH	3,949,263	04-06-76	Harper			
	AI	4,231,195	11-04-80	DeVries et al.			
	AJ	4,576,224	03-18-86	Eaton et al.			
	AK	4,649,992	03-17-87	Geen et al.			
	AL	4,948,388	08-14-90	Ringwood			
	AM	5,070,936	12-10-91	Carroll et al.			
	AN	5,120,495	06-09-92	Supan et al.			
	AO	5,130,771	07-14-92	Burnham et al.			
	AP	5,382,314	01-17-95	Jin			
	AQ	5,642,779	07-01-97	Yamamoto et al.			
	AR	5,696,665	12-09-97	Nagy			
	AS	5,719,441	02-17-98	Larimer			
	AT	5,783,316	07-21-98	Colella et al.			
	AU	5,786,075	07-28-98	Mishuku et al.			
	AV	5,895,972	04-20-99	Paniccia			
	AW	6,031,285	02-29-00	Nishibayashi			
	AX	6,167,948 B1	01-02-01	Thomas			
	AY	6,238,454 B1	05-29-01	Polese et al.			
	AZ	6,264,882 B1	07-24-01	Colella et al.			
	BA	6,335,863 B1	01-01-02	Yamamoto et al.			
	BB	6,337,513 B1	01-08-02	Clevenger et al.			

PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21154.CIP	SERIAL NO. 10/453,469
		APPLICANT Chien-Min Sung, Tansui, Taiwan	
		FILING DATE 06-02-03	GROUP 2814

LIST OF PRIOR ART CITED BY APPLICANT

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BC	6,361,857 B1	03-26-02	Saito et al.			
	BD	6,390,181 B1	05-21-02	Hall et al.			
	BE	6,448,642 B1	09-10-02	Bewley et al.			
	BF	6,517,221 B1	02-11-03	Xie			
	BG	6,538,892 B2	03-25-03	Smaic			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BH						
	BI						
	BJ						
	BK						
	BL						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	BM	
	BN	
	BO	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Sung, Chien-Min
SERIAL NO.: 10/270,018
FILED: 10/11/2002
CONFIRM. NO.: 3768
FOR: DIAMOND COMPOSITE
HEAT SPREADER AND
ASSOCIATED METHODS
ART UNIT: 2811
DOCKET NO.: 21154

CERTIFICATE OF DEPOSIT
UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, under 37 C.F.R. § 1.8 on the date indicated below and is addressed to Commissioner of Patents, Washington, D.C. 20231.

V. Montague
Signature

Mar. 11, 2003
Date of Deposit

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner of Patents
Washington, D.C. 20231

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

 X 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

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1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or

_____ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both
1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

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Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

DATED this 11th day of Mar, 2003.

Respectfully submitted,

M. Wayne Western

M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, L.L.P.
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone (801) 566-6633

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MWW/DWO/vm

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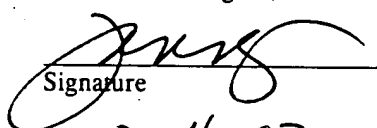
PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 21154		SERIAL NO. 10/270,018	
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT Sung, Chien-Min			
				FILING DATE 10/11/2002		GROUP 2811	
U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2002 0023733A1	Feb 28, 2002	Hall, et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AU						
	AV						
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)							
	AW						
	AX						
EXAMINER				DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Sung, Chien-Min
SERIAL NO.: 10/270,018
FILED: 10-11-02
CONFIRM. NO.: 3768
FOR: DIAMOND COMPOSITE
HEAT SPREADER AND
ASSOCIATED METHODS
ART UNIT: 2811
DOCKET NO.: 21154

CERTIFICATE OF DEPOSIT
UNDER 37 C.F.R. § 1.8

I hereby certify that this
correspondence is being deposited
with the United States Postal
Service as First Class Mail, postage
prepaid, under 37 C.F.R. § 1.8 on
the date indicated below and is
addressed to Commissioner of
Patents, Washington, D.C. 20231.


Signature

2-4-03
Date of Deposit

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner of Patents
Washington, D.C. 20231

Sir:

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Assistant Commissioner of Patents
Page 3

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

DATED this 4th day of February, 2003.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE, NORTH & WESTERN, L.L.P.
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone (801) 566-6633


MWW/DWO/jk

PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 21154		SERIAL NO. 10/270,018	
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT Sung, Chien-Min			
				FILING DATE 10-11-02		GROUP 2811	
U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,167,948	01-02-01	Thomas			
	AB	5,382,314	01-17-95	Jin			
	AC	5,786,075	07-28-98	Mishuku et al.			
	AD	4,948,388	08-14-90	Ringwood			
	AE	3,913,280	10-21-75	Hall			
	AF	5,120,495	06-09-92	Supan et al.			
	AG	6,264,882	07-24-01	Colella et al.			
	AH	5,130,771	07-14-92	Burnham et al.			
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